

From: [Brown, Michelle](#)
To: [Cook, Brenda](#)
Subject: Colfax Sampling Information
Date: Monday, September 28, 2015 11:10:44 AM
Attachments: [removed.txt](#)
[Cheatham Park Map Clipped DU.PDF](#)

Hi Brenda – just wanted to give you an update on the latest information I have gathered on Colfax. I have been reading-up on Incremental Composite Sampling and it is very labor intensive on the front end. As a default (without conducting statistical analysis) a decision unit (DU) is between 1/4-1/2 acre and has 30 increments, and that 10% of the DUs should be in triplicate (90 increments). The sampling tool used to collect these samples is called a CRREL Multi-Increment Sampling Tool (CMIST)



This tool rents for about \$150 per week or can be purchased for \$1200. Once all the plugs are collected they need to be dried and sieved to ensure all the increments are uniform and thoroughly mixed.

Attached is an example of how many samples would need to be collected on one of the nearest parks, Cheatham Park. Cheatham is approximately 18 acres and would have more than 1000 increments and almost 40 samples collected from it based on a 1/2-acre DU (without replicates). In addition, all the daycares within 1/2-mile have less than 1/4-acre outdoor spaces and would either need a different sampling approach or different sized DU.

I also looked into the field PAH testing kit. The DL for the kit is 0.05ppm for total PAH. Although a couple of the compounds (benzo(a)pyrene and dibenz(a,h)anthracene-EPA SSL) have individual DLs less than 0.05ppm, most of the compounds are higher, and all RCAP limits are above 0.05ppm, so it should be sufficient for screening. The cost for this is \$900 per week rental, \$295 for calibration kit to perform cal checks, \$360 per sample extraction kit which covers 20 samples (or approximately \$18 per sample), and \$60 for 1L of methanol for extraction.

Thanks - Michelle



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Attachment type: [image/jpeg]